

U.S.S.N. 10,636,076

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Claim Amendments

Please amend claims 1, 3, 13, 15, 17, and 18 as follows:

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Listing of Claims

1. (currently amended) An apparatus for visualization of conditions in the interior of at least one process chamber, comprising:

an inspection chamber positioned horizontally adjacent a transfer chamber, said transfer chamber adjacent the at least one process chamber; and

a camera provided in said inspection chamber, said camera mounted on a camera support, said cameras support adapted to horizontally bi-directionally move within said inspection chamber and said transfer chamber to position said camera to view the interior of the at least one process chamber.

2. (original) The apparatus of claim 1 wherein said camera comprises a charge coupled device.

3. (currently amended) The apparatus of claim 1 further comprising a motion actuating mechanism operably engaging said camera support, said actuating mechanism adapted to horizontally bi-directionally move said camera support in said inspection chamber and said transfer chamber.

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4. (canceled)

5. (previously presented) The apparatus of claim 1 further comprising an electrostatic catch head carried by said camera, said electrostatic catch head adapted to remove particles from said inspection chamber.

Claims 6-8 (canceled).

9. (original) The apparatus of claim 1 further comprising a recording device operably connected to said camera for recording images from said camera.

Claims 10-12 (canceled)

13. (currently amended) An apparatus for visualization of conditions in multiple process chambers of an integrated cluster tool having a central transfer chamber, comprising:

an inspection chamber for ~~positioned~~ adjacent to the transfer chamber; and

a camera assembly having a camera provided in said inspection chamber, said camera assembly adapted to for viewing

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of the interior of at least one of the process chambers;

wherein said camera assembly comprises an elongated camera support and a motion actuating mechanism operably engaging said camera support, said actuating mechanism adapted to for bidirectionally movement of said camera support in said inspection chamber and said transfer chamber to view the interior of the least one of said process chambers, and wherein said camera is carried by said camera support.

14. (canceled)

15. (currently amended) The apparatus of claim 13 ~~[[14]~~ further comprising an electrostatic catch head carried by said camera support, said electrostatic catch head adapted to remove particles from said inspection chamber.

16. (original) The apparatus of claim 13 wherein said camera comprises a charge coupled device.

17. (currently amended) An apparatus for visualization of conditions in multiple process chambers of an integrated cluster tool having a central transfer chamber, comprising:

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an inspection chamber positioned adjacent to the transfer chamber;

a camera assembly having a camera provided in said inspection chamber said camera mounted on a camera support adapted to horizontally bi-directionally move within said inspection chamber and said transfer chamber to position said camera to view the interior of at least one of the process chambers;

an electrostatic catch head carried by said camera assembly, said electrostatic catch head adapted to remove particles from said inspection chamber; and

a voltage source operably connected to said catch head, said voltage source adapted to for imparting an electrostatic charge to said catch head.

18. (currently amended) The apparatus of claim 17 wherein said camera support comprises an elongated camera support and a motion actuating mechanism operably engaging said camera support, said actuating mechanism adapted for said horizontal bidirectional movement of said camera support in said inspection chamber, and wherein said camera and said catch head are carried by said

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camera support.

19. (original) The apparatus of claim 17 wherein said camera comprises a charge coupled device.

20. (original) The apparatus of claim 17 further comprising a recording device operably connected to said camera for recording images from said camera.

21. (previously presented) The apparatus of claim 1, wherein said camera comprises a light source.

22. (previously presented) The apparatus of claim 1 wherein said camera is a panoramic camera.

23. (previously presented) The apparatus of claim 3, wherein said camera assembly comprises an elongated camera support.

24. (previously presented) The apparatus of claim 13, wherein said camera comprises a light source.

25. (previously presented) The apparatus of claim 13, wherein said camera is a panoramic camera.

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26. (previously presented) The apparatus of claim 13, wherein said camera comprises a light source.

27. (previously presented) The apparatus of claim 13 wherein said camera is a panoramic camera.

28. (previously presented) The apparatus of claim 17, wherein said camera comprises a light source.